

## PRODUCT CONTROL NOTICE OF ACCEPTANCE

**PGT Industries** 1070 Technology Drive Nokomis,FL 34275

#### BUILDING CODE COMPLIANCE OFFICE

METRO-DADE FLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION

(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION (305) 375-2966 FAX (305) 375-2908

> PRODUCT CONTROL DIVISION (305) 375-2902 FAX (305) 372-6339

Your application for Notice of Acceptance (NOA) of:

1"x Heavy Wall - Aluminum Tube Clipped Mullion

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 01-0323.02** 

**EXPIRES: 06/28/2006** 

Raul Rodriguez

**Chief Product Control Division** 

### THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS **BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.

Manises / awintera

Director

Miami-Dade County

**Building Code Compliance Office** 

APPROVED: 06/28/2001

PGT Industries ACCEPTANCE No.: 01-0323.02

APPROVED : <u>JUN 2 8 2001</u>

EXPIRES : JUN 2 8 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

#### 1. SCOPE

1.1 This approves a clipped mullion system, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

#### 2. PRODUCT DESCRIPTION

2.1 The 1"x Heavy Wall - Aluminum Tube Clipped Mullion and its components shall be constructed in strict compliance with the following documents: Drawing No 6621, Sheets 1 through 6 of 6, titled "1" Heavy Wall Mullion Arrangement Detail", prepared by manufacturer, dated 4/28/00, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control approval stamp; with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

#### 3. LIMITATIONS

- 3.1 This approval applies to clipped structural mullions to be installed vertically or horizontally, as shown in the approved drawings.
- 3.2 For Design Pressure Rating vs. Mullion Length and Opening Width, for either 1x2x.375 (2 anchors) mullion, 1x2.75x.375 (3/4 anchors) mullion, 1x2.75x.650 (3/4 anchors) mullion or 1x4x.375 (4/6 anchors) mullion, see corresponding table in approved drawings.
- 3.3 Window sizes and design pressures are to be limited only to those appearing on charts referenced above and also listed in the individual window's Notice of Acceptance.

#### 4. INSTALLATION

- **4.1** The clipped mullion system and its components shall be installed in strict compliance with the approved drawings.
- 4.2 This mullion can be installed as part of an impact resistant unit.

#### 5. LABELING

**5.1** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

#### 6. BUILDING PERMIT REQUIREMENTS

- **6.1** Application for building permit shall be accompanied by copies of the following:
  - **6.1.1** This Notice of Acceptance, with mullion option indicated.
  - **6.1.2** The Notice of Acceptance of each door and/or fixed lite attached to mullion.
  - 6.1.3 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
  - 6.1.4 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examiner

#### **PGT Industries**

ACCEPTANCE No.: 01-0323.02

**APPROVED** 

JUN 2 8 2001

**EXPIRES** 

JUN 2 8 2006

### NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

- 2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
- 8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner

#### **PGT Industries**

ACCEPTANCE No.: 01-0323.02

**APPROVED** 

. JUN 2 8 2001

**EXPIRES** 

JUN 2 8 2006

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

#### A. DRAWINGS

1. Manufacturer's die drawings and sections.

2. Drawing No **6621**, Sheets 1 through 6 of 6, titled "1" Heavy Wall Mullion Arrangement Detail", prepared by manufacturer, dated 4/28/00, signed and sealed by Robert L. Clark, P.E.

#### B. TESTS

- 1. Test reports on 1) Uniform Load Static Air Pressure Test, per SFBC, PA 202-94
  - 2) Large Missile Impact Test, SFBC PA 201-94
  - 3) Cyclic Loading Test, per SFBC PA 203-94

along with installation diagram of a pair of fixed alum. windows (OO configuration) 60" x 54" mulled together with a 1x 2 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-2902, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.

- 2. Test reports on 1) Uniform Load Static Air Pressure Test, per SFBC, PA 202-94
  - 2) Large Missile Impact Test, SFBC PA 201-94
  - 3) Cyclic Loading Test, per SFBC PA 203-94

along with installation diagram of a pair of fixed alum. windows (OO configuration) 80" x 76" mulled together with a 1x 4 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-2903, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.

- 3. Test reports on 1) Uniform Load Static Air Pressure Test, per SFBC, PA 202-94
  - 2) Large Missile Impact Test, SFBC PA 201-94
  - 3) Cyclic Loading Test, per SFBC PA 203-94

along with installation diagram of a pair of fixed alum. windows with a transom lite (O/OO configuration) mulled together with a  $1 \times 2 \times 34$ " wall vertical mullion and a  $2 \times 6$ " x 1/4" wall horizontal mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-2975, dated 01/23/01, signed and sealed by Antonio Acevedo, P.E.

#### C. CALCULATIONS

1. Engineering Structural & Anchor Calculations, prepared by manufacturer, dated 08/20/00, revised on 5/24/01, signed and sealed by Robert L. Clark, P.E.

#### D. MATERIAL CERTIFICATIONS

1. None.

Manuel Perez, P.E. Product Control Examiner

#### **PGT Industries**

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JUN 2 8 2001

**EXPIRES** 

JUN 2 8 2006

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

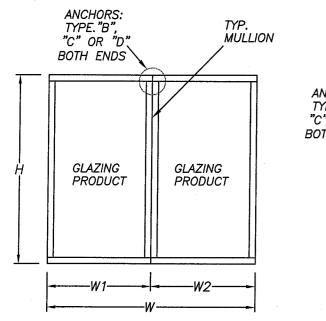
#### E. **STATEMENTS**

- Statement letter of conformance, dated March 16, 2001, signed and sealed by Robert L. Clark, P.E.
- Statement letter of no financial interest, dated \_\_\_\_\_\_, signed and sealed by Robert 2. L. Clark, P.E.
- Laboratory compliance letter for Test Reports No. FTL-2902, FTL-2903 and FTL-2975, 3. issued by Fenestration Testing Laboratory, Inc., dated January 30, 2001, signed and sealed by Antonio Acevedo, P.E.

#### F. **OTHER**

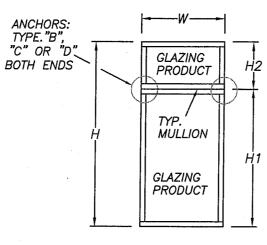
None. 1.

Manuel Perez, P.E. Product Control Examiner





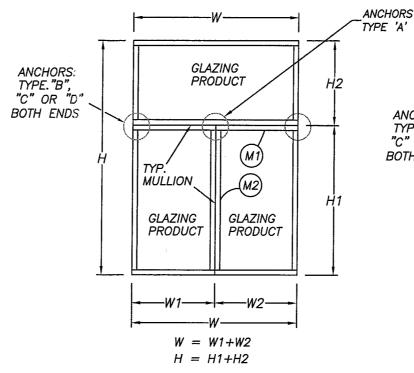
FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 & 6 MAX OPENING = W OR W1+W2 $MULL\ LENGTH\ =\ H$ 



## (1) WINDOW MULLED W/ONE ABOVE FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 & 6

H = H1+H2

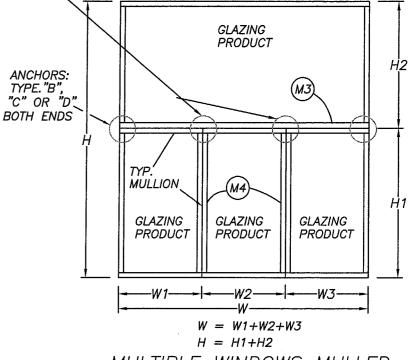
MAX OPENING = H OR H1+H2 $MULL\ LENGTH = W$ 



## (2) WINDOWS MULLED

W/ONE ABOVE FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 & 6

- M1) MAX OPENING = H OR H1+H2 $MULL\ LENGTH = W\ OR\ W1+W2$
- M2) MAX OPENING = W OR W1+W2MULL LENGTH = H1



MULTIPLE WINDOWS MULLED

W/ONE ABOVE FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5 & 6

- M3) MAX OPENING = H OR H1+H2 $MULL\ LENGTH = W\ OR\ W1+W2+W3$
- M4) MAX OPENING = W1+W2 OR W2+W3 $MULL\ LENGTH\ =\ H1$

APPROVED AS COMPLYING WITH THE PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0323.02

NOTES.

- 1. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION REFER TO SHEETS 2, 3, 5 AND 6
- 2. WINDOWS MAY BE MULLED TO A MAX. OF 5 UNITS
- 3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT
- 4. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

Robert L. Clark, P.E. P.E. #39712

Structural



Revsd By: Date: Drawn By: P.J.P.

Chkd By: Date: Revisions: Date: 4/28/00

Description:

HEAVY WALL MULLION ARRANGEMENT DETAIL

Drawing No.

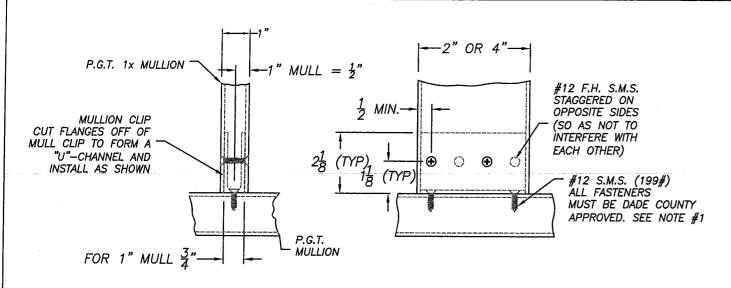
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

P.O. BOX 1529 NOKOMIS, FL 34274

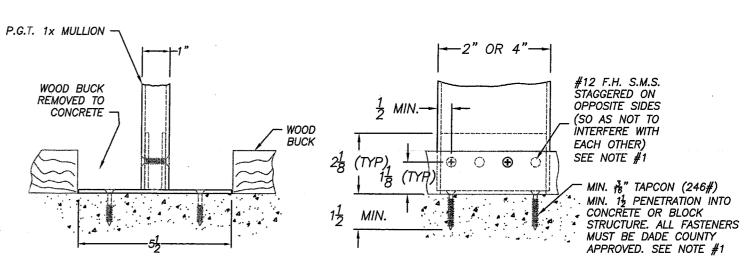
Series/Model: MULLS

Scale: Sheet: 1 of 6 1 x

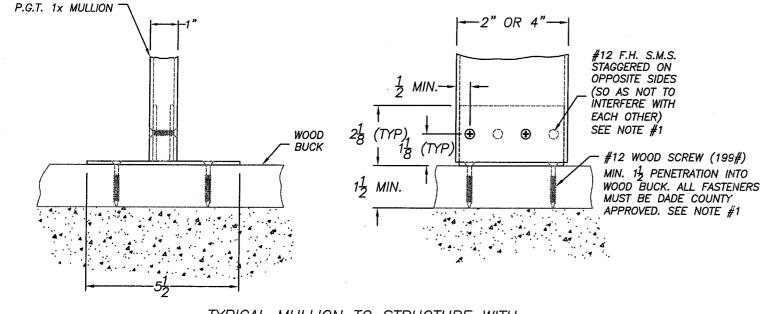
6621



MULLION TO MULLION INSTALLATION TYPE "A".



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC. TYPE "C"



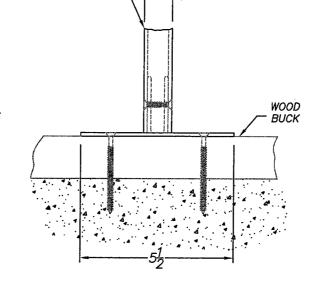
TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK TYPE "B".

#### NOTE:

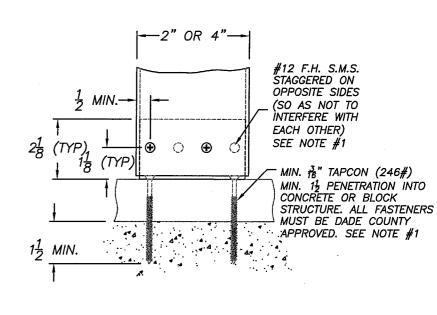
SPECIFIC APPLICATION.

- 1. FOR MULL SIZE AND QUANTITY OF ANCHORS REQUIRED SEE SHEETS 5 & 6. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF ANCHORS FOR MULL-TO-CLIP IS THE SAME AS THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING.
- 2. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

**IMPORTANT:** QUANTITY OF ANCHORS SHOWN ARE FOR A PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS PLEASE REFER TO CHARTS AND FIND THE CORRECT MULL SIZE AND PRESSURE REQ'D FOR YOUR



P.G.T. 1x MULLION



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC. TYPE "D".

APPROVED AS COMPLYING WITH THE FLORIDA BUILDING CO PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0323.02

**INDUSTRIES** 

Robert L. Clark, P.E. P.E. #39712

Structural

Revsd By: Date: Chkd By: Date: Revisions: Drawn By: P.J.P. 4/28/00

Description:

WALL MULLION & CLIP INSTALLATION DETAIL HEAVY

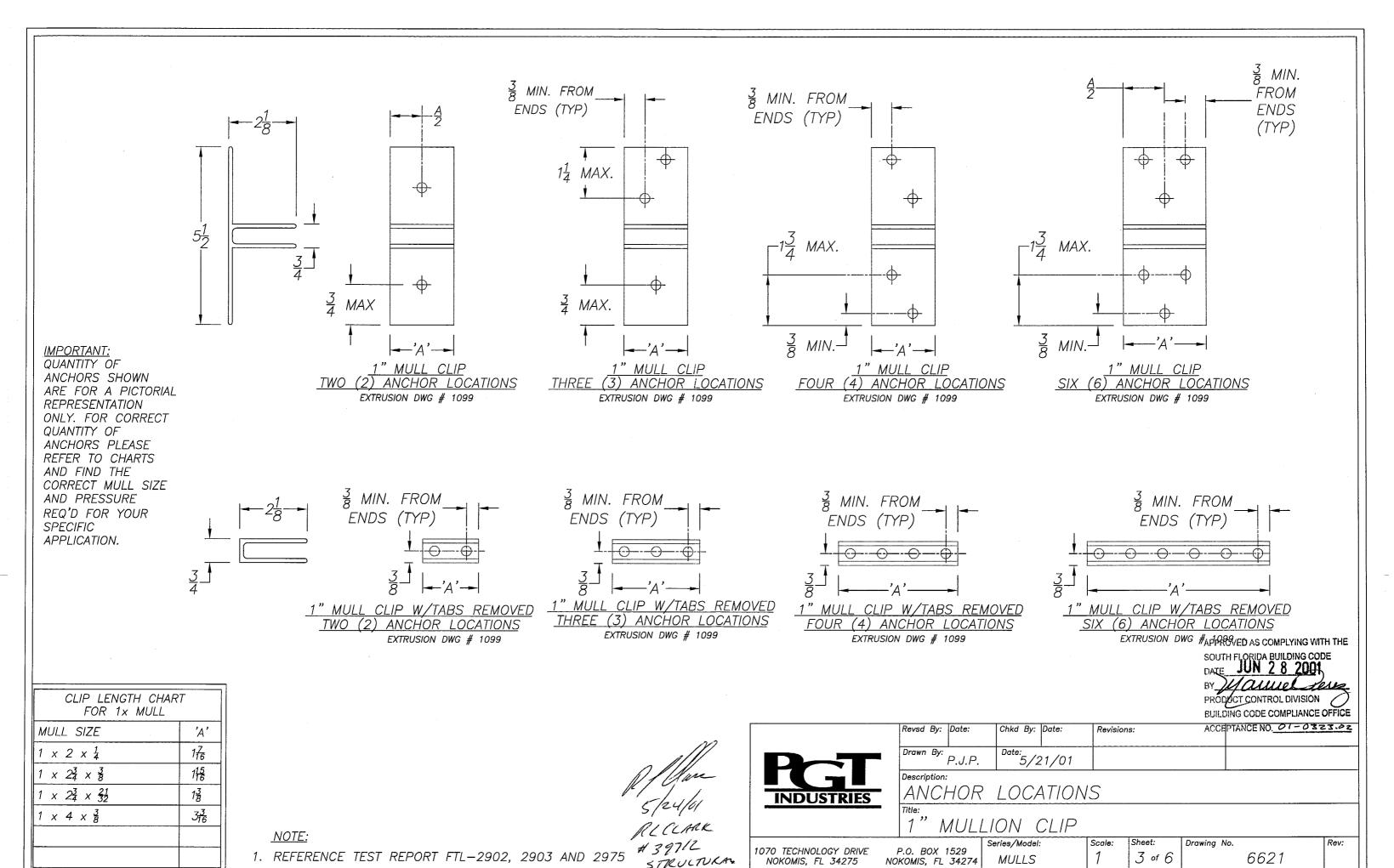
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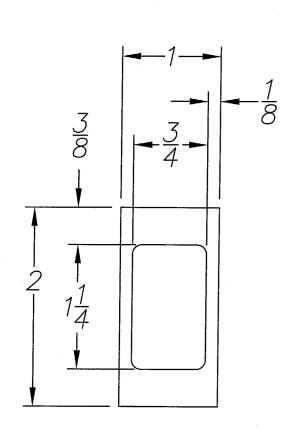
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

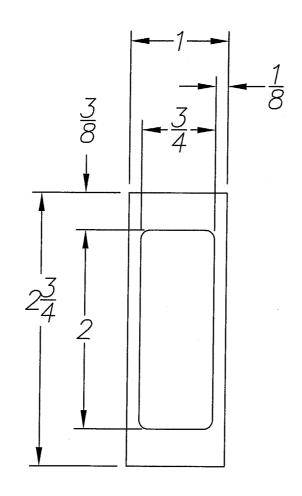
P.O. BOX 1529 NOKOMIS, FL 34274 Series/Model: MULLS

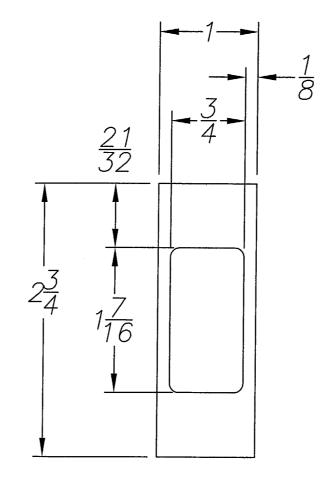
Sheet: Drawing No. 2 of 6 1 x

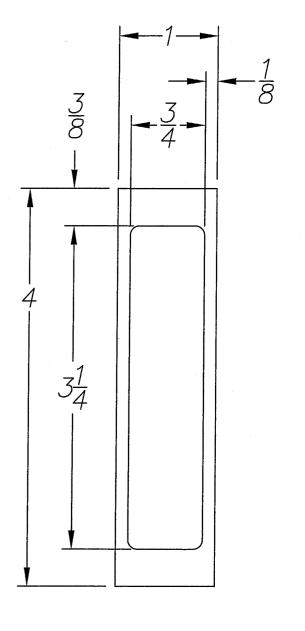
Rev: 6621











1x HEAVY WALL MULLS MAT'L: 6063-T6

APPROVED AS COMPLYING WITH THE

BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0323.02

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

Revsd By: Date: Chkd By: Date: Revisions: Date: 5/22/00

WALL MULLION PROFILES

Robert L. Clark, P.E. 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

P.O. BOX 1529 NOKOMIS, FL 34274

Series/Model: MULLS

Sheet: 1x 4 of 6

Drawing No. 6621

Rev:

1x2x	c.375				OPE	NING WI	DTH IN IN	NCHES			
2 An	chors	50	60	70	80	90	100	110	120	130	160
	42	155	142	134	130	130	130	130	130	130	130
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	50.625	115	100	91	85	82	80	80	80	80	80
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INCHES	60	67	58	51	47	44	42	41	41	41	41
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(2)	48	170	170	170	170	161	170	154	170	150	170	149	170	149	170	149	170	149	170	149	170
	50.625	170	170	161	170	148	170	140	170	136	170	134	170	134	170	134	170	134	170	134	170
ES	54	166	170	147	170	135	165	126	153	121	146	119	142	118	141	118	141	118	141	118	141
INCHES	60	145	152	127	131	116	116	101	107	100	100	96	96	93	93	92	92	92	92	92	92
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Z	66	113	113	97	97	85	85	77	77	72	72	68	68	65	65	64	64	63	63	63	63
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<u>5</u>	76	73	73	62	62	54	54	49	49	45	45	42	42	40	40	38	38	37	37	36	36
LENGTH	78	67	67	57	57	50	50	45	45	41	41	38	38	36	36	35	35	33	33	32	32
1	84	54	54	45	45	40	40	35	35	32	32	30	30	28	28	27	27	26	26	24	24
MULL	90	43	43	37	37	32	32	28	28	26	26	24	24	22	22	21	21	20	20	19	19
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# **Vertical Mull** Mull Length \_Opening\_\_\_ Width **Horizontal Mull** Opening Width Mull Length \_\_\_ **Multiple Mulled Units** Mull Length Opening Width

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE JUN 2 8 2001
BY ALL PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0323.02

## NOTES:

- 1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
- 2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1
- 3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

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1	MAlline
٠	5/24/01
	RL CLARK
	#397/2

	Draw
<b>IGI</b>	Desci
INDUSTRIES	$\Gamma$
	Title:
	1 1 2

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 Revsd By: Date: Chkd By: Date: Revisions:

Drawn By: P.J.P. Date: 4/28/00

Description: PRESSURE CHARTS

1", HE

P.O. BOX 1529 NOKOMIS, FL 34274

" HEAVY WALL MULLION

| Series/Model: | Scale: | Sheet:

MULLS

Scale: Sheet:

NTS 5 of 6

Drawing No. 6621

Rev:

STRUCTURAL

1x2.7	5x.650						<del></del>	(	OPE	NINC	WII	DTH	IN IN	ICHE	ES			~			
3/4 A	nchors	50 60		70		8	80		0	100		110		120		130		16	60		
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(3)	48	170	170	160	170	148	169	141	161	138	158	137	157	137	157	137	157	170	157	170	157
	50.625	166	170	148	169	136	156	129	148	125	143	123	141	123	141	123	141	154	141	123	141
ES	54	152	170	135	155	124	142	116	133	112	128	109	125	108	124	108	124	108	124	108	124
INCHES	60		152								107		103		101		100		100		100
	63	125	143	110	126	99	114	92	105	87	99	83	95	81	93	80	91	80	91	80	91
Z	66	118	135	103	118	93	107	86	97	81	90	77	85	75	82	73	80	73	79	73	79
上	72	106	108	92	92	81	81	73	73	67	67	63	63	60	60	58	58	56	56	56	56
<u> </u>	<b>76</b>	91	91	77	77	68	68	61	61	56	56	52	52	49	49	47	47	46	46	45	45
LENGTH	78	84	84	71	71	63	63	56	56	51	51	48	48	45	45	43	43	42	42	40	40
	84	67	67	57	57	50	50	44	44	40	40	37	37	35	35	33	33	32	32	30	30
MULL	90	54	54	46	46	40	40	36	36	32	32	30	30	28	28	26	26	25	25	23	23
Σ	96	44	44	38	38	33	33	29	29	26	26	24	24	23	23	21	21	20	20	18	18
	108	31	31	26	26	23	23	20	20	18	18	17	17	15	15	<u>-</u>	-	-	-	-	-
	111	29	29	24	24	21	21	18	18	17	17	15	15	-	-	-	-	-	-	-	-
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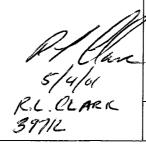
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<u>ত</u>								102	126	95	116	90	108	86	102	83	98	81	95	79	93
LENGTH	78	140	170	121	148	108	129	99	116	92	106	87	99	83	93	80	89	78	87	75	84
	84	128	138	111	117	98	102	90	92	83	83	77	77	73	73	69	69	66	66	62	62
MULL		112	112	95	95	82	82	74	74	67 i	67	62	62	58	58	54	54	52	52	48	48
Σ	96	92	92	78	78	67	67	60	60	54	54	50	50	47	47	44	44	42	42	38	38
	108	64	64	54	54	47	47	42	42	37	37	34	34	32	32	30	30	28	28	25	25
	111	59	59	50	50	43	43	38	38	34	34	31	31	29	29	27	27	26	26	23	23
	144	27	27	22	22	19	19	17	17	15	15		- ]	]	- ]		-		-		-

# **Vertical Mull** Mull Length \_Opening\_\_ Width **Horizontal Mull** Opening Width Mull Length **Multiple Mulled Units** Length Opening Width

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE JUN 2 8 2001 PRODUCTEONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0323.02

## NOTES:

- 1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
- 2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
- 3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975





Revsd By: Date: Chkd By: Date: Revisions: Drawn By: P.J.P. Date: 4/28/00

PRESSURE CHARTS

1" HEAVY WALL MULLION

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

P.O. BOX 1529 NOKOMIS, FL 34274

Series/Model: MULLS

Scale: Sheet: Drawing No. NTS 6 of 6

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Rev: